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Jesverty HK33D

Jesverty HK33D Digital Multimeter User Manual

Model: HK33D

1. INTRODUCTION

The Jesverty HK33D is a versatile 2000-count digital multimeter designed for accurate measurement of various electrical parameters. This instrument is suitable for both industrial and household electrical troubleshooting, including testing household outlets, fuses, batteries, and automotive circuits. It measures AC/DC Voltage, DC Current, Resistance, and performs Diode and Continuity tests. Additionally, it features Live Wire detection, Non-Contact Voltage (NCV) detection, and Temperature measurement capabilities.

Ideal for Household Fuses, Batteries Automotive Circuit Troubleshooting

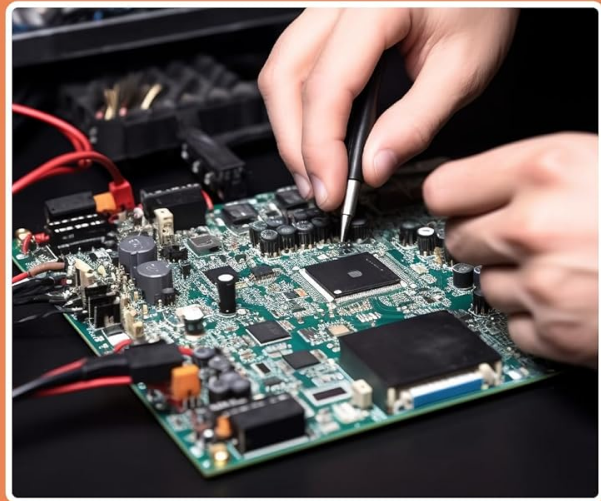
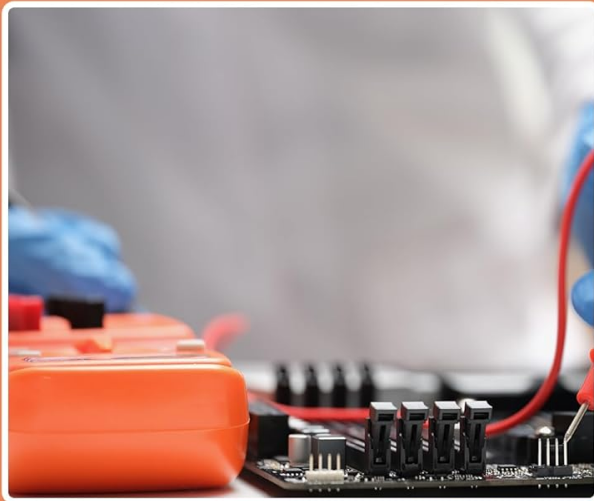


Image: The Jesverty HK33D Digital Multimeter being used for various electrical measurements, including circuit board testing, fuse checking, and automotive diagnostics.

2. SAFETY INFORMATION

To ensure safe operation and avoid damage to the meter, please read and follow all safety instructions carefully. This device is rated for CAT III 600V.

- Always ensure the test leads are properly connected and the function dial is set to the correct range before making any measurements.
- Never exceed the maximum input values specified for each range.
- Do not use the meter if it or the test leads appear damaged. Inspect them before each use.
- Turn off power to the circuit under test before connecting or disconnecting test leads, especially when measuring current.
- Be cautious when working with voltages above 30V AC RMS, 42V peak, or 60V DC, as these pose a shock hazard.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.
- Do not operate the meter in explosive gas, vapor, or dust environments.

3. PRODUCT OVERVIEW AND FEATURES

The Jesverty HK33D Digital Multimeter is designed for ease of use and reliability. It features a clear LCD screen, a rotary function dial, and dedicated buttons for various operations.



Image: The Jesverty HK33D Digital Multimeter, showing its orange casing, LCD display, function dial, input jacks, test leads, and included batteries.

Key Features:

- **2000 Counts Digital Display:** Provides clear and precise readings.
- **True RMS Measurement:** Ensures accurate readings for non-sinusoidal waveforms.
- **Versatile Measurement Functions:** Measures AC/DC Voltage, DC Current, Resistance, Diode, Continuity, Frequency, Duty Cycle, and hFE.
- **Live Wire Detection:** Identifies live electrical wires.
- **Non-Contact Voltage (NCV) Function:** Detects AC voltage without direct contact, enhancing safety.
- **Temperature Measurement:** Includes a K-Type thermocouple for temperature readings.
- **Audible Assurance:** Built-in buzzer for continuity tests (sounds if resistance is less than 50Ω).
- **Backlight LCD Screen:** Improves visibility in low-light conditions.

- **LED Flashlight:** Assists in illuminating dark work areas.
- **Support Stand:** Flexible and stable stand for convenient hands-free operation, adjustable up to 90 degrees.
- **Overload Protection:** Equipped with 2 stable fuses to provide safety and overload protection on all ranges.



Image: Close-up of the Jesverty HK33D multimeter display, highlighting its 2000 counts and various measurement modes like DC Voltage, Live, NCV, Frequency, AC Voltage, Duty Cycle, Diode, Resistance, hFE, Continuity, Temperature, and Microampere.

High-performance chipset for more accurate faster measurements



2 Stable Fuses

Safety First, Provides Overload Protection On All Ranges

Image: An internal view of the Jesverty HK33D Digital Multimeter, illustrating its high-performance chipset for accurate measurements and two stable fuses for overload protection across all ranges.



Audible Assurance

Built-in buzzer sounds if resistance is less than 50Ω



NCV Function

NON Contact Detect Live Wires Anywhere With Great Precision



Temperature

K-Type Thermocouple for Temperature Measurement



Support Stand

Flexible and Stable. It can be adjusted freely within 90 degree



Image: Four panels demonstrating key features: Audible Assurance (buzzer for continuity), NCV Function (non-contact live wire detection), Temperature Measurement (using K-Type thermocouple), and the flexible Support Stand.

LED Flashlight



LED Flashlight



LCD display area

The backlight and flashlight work together to make measurements safer in dark areas and at night

Image: The Jesverty HK33D Digital Multimeter's LED flashlight illuminating a dark electrical panel, demonstrating how the backlight and flashlight work together for safer measurements in low-light conditions.

4. SETUP

4.1 Unpacking

Carefully unpack the contents of the box. The package should include:

- Jesverty HK33D Digital Multimeter
- Set of Test Leads (Red and Black)
- K-Type Thermocouple (for temperature measurement)
- User Manual



Image: The complete package contents of the Jesverty HK33D Digital Multimeter, including the multimeter, test leads, K-type thermocouple, and user manual.

4.2 Battery Installation

The Jesverty HK33D Multimeter requires batteries for operation (batteries are not included in the package). To install or replace batteries:

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the unit.
3. Use a screwdriver to open the battery compartment.
4. Insert the required batteries, observing the correct polarity (+ and -).
5. Replace the battery compartment cover and secure it with the screw.

4.3 Test Lead Connection

Connect the test leads to the appropriate input jacks on the multimeter:

- Connect the **black test lead** to the **COM** (Common) jack.
- For most measurements (Voltage, Resistance, Diode, Continuity, Frequency, Temperature, small Current), connect the **red test lead** to the **VΩmA** jack.

- For large current measurements (up to 10A), connect the **red test lead** to the **10A MAX** jack.

5. OPERATING INSTRUCTIONS

Before operating, ensure the multimeter is set up correctly as described in Section 4.

5.1 Function Selection

Rotate the central dial to select the desired measurement function. The display will show the corresponding symbol for the selected mode.

5.2 Measuring AC/DC Voltage

1. Connect the black test lead to COM and the red test lead to VΩmA.
2. Turn the rotary dial to the **V~** (AC Voltage) or **V-** (DC Voltage) position.
3. Connect the test probes in parallel to the circuit or component you wish to measure.
4. Read the voltage value on the display.



Image: The Jesvertly HK33D Multimeter performing DC Voltage measurement on a battery and AC Voltage measurement on a power supply, illustrating proper test lead connection and display readings.

5.3 Measuring DC Current

1. **Important:** Turn off power to the circuit before connecting the multimeter.
2. Connect the black test lead to COM. Connect the red test lead to VΩmA for mA range or 10A MAX for A range.
3. Turn the rotary dial to the **A-** (DC Current) or **mA-** (DC Milliampere) position.
4. Break the circuit and connect the multimeter in series with the load.
5. Turn on the circuit power and read the current value on the display.
6. Turn off power before disconnecting the multimeter and restoring the circuit.

5.4 Measuring Resistance

1. Ensure the circuit is de-energized and any capacitors are discharged.
2. Connect the black test lead to COM and the red test lead to VΩmA.
3. Turn the rotary dial to the **Ω** (Resistance) position.
4. Connect the test probes across the component to measure its resistance.
5. Read the resistance value on the display.

5.5 Continuity Test

1. Ensure the circuit is de-energized.
2. Connect the black test lead to COM and the red test lead to VΩmA.
3. Turn the rotary dial to the **Continuity** (speaker icon) position.
4. Touch the test probes to the two points you want to check for continuity.
5. If there is continuity (resistance less than approximately 50Ω), the buzzer will sound.

5.6 Diode Test

1. Ensure the circuit is de-energized.
2. Connect the black test lead to COM and the red test lead to VΩmA.
3. Turn the rotary dial to the **Diode** (diode symbol) position.
4. Connect the red probe to the anode and the black probe to the cathode of the diode.
5. The display will show the forward voltage drop. Reverse the probes; the display should show 'OL' (Open Line) for a good diode.

5.7 Non-Contact Voltage (NCV) Detection

1. Turn the rotary dial to the **NCV** position.
2. Move the top end of the multimeter near the conductor or outlet you want to test.
3. The meter will beep and the LED will flash with increasing frequency as it detects AC voltage.

5.8 Live Wire Test

1. Turn the rotary dial to the **Live** position.
2. Insert the red test probe into the live terminal of an outlet or touch it to a live wire.
3. The display will indicate 'LIVE' and the meter will beep if a live wire is detected.

5.9 Temperature Measurement

1. Connect the K-Type thermocouple to the VΩmA and COM jacks, observing polarity.

2. Turn the rotary dial to the °C/°F position.
3. Place the thermocouple tip on or in the object whose temperature you wish to measure.
4. Read the temperature value on the display. Use the 'SEL' button to switch between Celsius and Fahrenheit.

5.10 Frequency (Hz) and Duty Cycle (%)

1. Connect the black test lead to COM and the red test lead to VΩmA.
2. Turn the rotary dial to the Hz/% position.
3. Connect the test probes to the signal source.
4. Read the frequency or duty cycle on the display. Use the 'SEL' button to toggle between Hz and %.

5.11 hFE (Transistor Test)

This function allows for testing the DC current gain (hFE) of NPN and PNP transistors. Refer to the specific markings on the multimeter for transistor lead insertion points (E, B, C for Emitter, Base, Collector).

1. Turn the rotary dial to the hFE position.
2. Insert the transistor leads into the corresponding sockets on the multimeter.
3. Read the hFE value on the display.

5.12 Additional Functions (Buttons)

- **SEL Button:** Used to switch between different functions within a single dial position (e.g., AC/DC, Hz/%, °C/°F).
- **H / ★ Button:** Short press for Data Hold (H), which freezes the current reading on the display. Long press for Backlight (★), which illuminates the LCD.
- **MIN MAX REL Button:** Used to record minimum/maximum values or for relative measurement.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is dry before use.

6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.2 to maintain measurement accuracy.

6.3 Fuse Replacement

If the current measurement function stops working, the fuse may need replacement. Refer to the specifications for the correct fuse type and rating. Fuse replacement should only be performed by qualified personnel.

6.4 Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage and store it in a cool, dry place away from direct sunlight.

7. TROUBLESHOOTING

If you encounter issues with your Jesverty HK33D Multimeter, refer to the following common troubleshooting

steps:

- **No Display or Faint Display:** Check battery installation and replace batteries if necessary.
- **Incorrect Readings:** Ensure the function dial is set to the correct measurement type and range. Check test lead connections. Verify the circuit is de-energized for resistance/continuity tests.
- **Current Measurement Not Working:** Check if the fuse is blown. Replace if needed (refer to Section 6.3).
- **Continuity Buzzer Not Sounding:** Ensure the resistance between the probes is below 50Ω. Check test leads for damage.
- **NCV/Live Wire Detection Not Working:** Ensure the function is selected correctly. The presence of strong electromagnetic fields can interfere with these functions.

If the problem persists after attempting these steps, contact customer support.

8. SPECIFICATIONS

Parameter	Value
Brand	Jesverty
Model Number	HK33D (also referred to as HS33D)
Display	2000 Counts Digital LCD
Power Source	Battery Powered (Batteries not included)
Safety Rating	CAT III 600V
Item Weight	340 g
Package Dimensions	17.09 x 11.2 x 5.41 cm
Included Components	Multimeter, Test Leads, User Manual, K-Type Thermocouple
UPC	680306174911

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Jesverty website. Keep your purchase receipt as proof of purchase for any warranty claims.